



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/002,723	11/16/2001	Vibhor Julka	4740-029	2830
24112	7590	02/08/2006	EXAMINER	
COATS & BENNETT, PLLC P O BOX 5 RALEIGH, NC 27602			PEREZ, JULIO R	
			ART UNIT	PAPER NUMBER
			2681	
DATE MAILED: 02/08/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/002,723	Applicant(s) JULKA ET AL.	
	Examiner Julio R. Perez	Art Unit 2681	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 October 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-27, 29-34 and 36-65 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 25-27, 29-34, 36-40 and 60-65 is/are allowed.
- 6) ☒ Claim(s) 1-8, 13-24, 41-46 and 50-59 is/are rejected.
- 7) ☒ Claim(s) 9-12 and 47-49 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Response to Arguments

1. Applicant's arguments with respect to claims 1-27, 29-34, 36-65, have been considered but are moot in view of the new ground(s) of rejection.

DETAILED ACTION

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-8, 13-24, 41- 46, 50-59, are rejected under 35 U.S.C. 102(e) as being anticipated by Madour et al. (hereinafter Madour) US Pub. 20020114293.

Regarding claim 1, Madour discloses a wireless communication network comprising: a packet control function (0020); a plurality of access network controllers connected to the packet control function for communicating with an access terminal engaged in a communication session (0020-0022); a session controller having memory for storing session information used by one or more of the access network controllers to communicatively couple the access terminal to the packet control function during the communication session (0022; 0027-0028, storing means for storing session information is available via the BSC.HDL within the system); and wherein, in response to transfer of the access terminal from a first one of the access network controllers to a

Art Unit: 2681

second one of the access network controllers, the session controller sends the session information stored in the session controller to the second access network controller (0027-0030, the session information for communication is sent from the home access network to the target access network for continuing session communication).

Regarding claim 2, Madour discloses, wherein the transfer is a dormant handoff (0014-0015).

Regarding claim 3, Madour discloses, wherein the second access network controller queries the session controller for session information associated with the access terminal responsive to the transfer of the access terminal from the first access network controller to the second access network controller (0014-0022).

Regarding claim 4, Madour discloses, wherein the session controller provides the session information associated with the access terminal to the second access network controller responsive to receiving a query from the second access network controller (0014-0022; 0027-0030).

Regarding claim 5, Madour discloses, wherein the first access network controller removes session information for the access terminal stored in the first access network controller in response to the transfer of the access terminal from the first access network controller to the second access network controller (0014-0022; 0027-0030).

Regarding claim 6, Madour discloses, wherein the first access network controller removes session information for the access terminal in response to a cancellation request message from the session controller (0014-0022; 0027-0032).

Regarding claim 7, Madour discloses, wherein the session controller further stores in memory routing information indicating which of the plurality of access network controllers is currently identified with the access terminal by the session controller (0014-0022; 0027-0032).

Regarding claim 8, Madour discloses, wherein the session controller updates the routing information in response to the transfer of the access terminal from the first access network controller to the second access network controller (0014-0022; 0027-0032).

Regarding claim 13, Madour discloses, wherein the session controller updates the routing information responsive to a session cancellation message from an access network controller (0014-0022; 0027-0032).

Regarding claim 14, Madour discloses, wherein the session controller sends a session update message to one or more of the access network controllers if the session controller detects that the access terminal is not currently identified with any one of the plurality of access network controllers (0014-0022; 0027-0032).

Regarding claim 15, Madour discloses, wherein the access network controllers page the access terminal in response to receipt of the session update message by the access network controllers (0014-0022; 0027-0032).

Regarding claim 16, Madour discloses, wherein the access network controllers send a session cancellation message to the session controller if the access terminal does not respond to the page within a predetermined time, and wherein the session

controller updates the routing information responsive to the session cancellation message (0014-0022; 0027-0032; Fig. 2).

Regarding claim 17, Madour discloses, wherein the packet control function maintains routing information in memory indicating which access network controller is currently identified with the access terminal by the packet control function (0014-0022; 0027-0032; Fig. 2).

Regarding claim 18, Madour discloses, wherein the packet control function updates the routing information when the packet control function receives a connection request associated with the access terminal from one of said plurality of access network controllers (0014-0022; 0027-0032; Fig. 2).

Regarding claim 19, Madour discloses, wherein the packet control function sends a service request to the access network controller currently identified with the access terminal by the packet control function in response to receiving data to be delivered to the access terminal (0014-0022; 0027-0032).

Regarding claim 20, Madour discloses, wherein the access network controller receiving the service request from the packet control function initiates redirection of the service request received from the packet control function if the access network controller does not have session information associated with the access terminal (0014-0022; 0027-0032).

Regarding claim 21, Madour discloses, wherein redirecting the service request comprises: sending a notification from the access network controller receiving the service request to the session controller; and sending a connection setup request from

Art Unit: 2681

the session controller to the access network controller currently identified with the access terminal by the session controller (0014-0022; 0027-0032).

Regarding claim 22, Madour discloses, wherein the access network controllers are operative to send a connection request to the packet control function to establish a connection with said packet control function responsive to receiving a connection setup request from the session controller (0014-0022; 0027-0032; Fig. 2).

Regarding claim 23, Madour discloses, wherein the network comprises a UTRAN wireless communication network (0013).

Regarding claim 24, Madour discloses, wherein the session controller assigns a Universal Access Terminal Identifier to said access terminal (0028).

Regarding claim 41, Madour discloses, a method of mobility management in a wireless communication network having a plurality of access network controllers and a packet control function communicatively connected to the plurality of access network controllers, the method comprising: storing session information associated with an access terminal in a session controller that is communicatively connected to the plurality of access network controllers (0014-0022; 0027-0032; Fig. 2); and receiving a session information request by the session controller from one of the access network controllers (0014-0022; 0027-0032); and sending the session information stored in the session controller to the requesting access network controller (0014-0022; 0027-0032; Fig. 2).

Regarding claim 42, Madour discloses, further comprising generating the session information request at a second access network controller responsive to the transfer of the access terminal from a first access network controller to the second access network

Art Unit: 2681

controller, and sending the session information request from the second access network controller to the session controller (0014-0022; 0027-0032).

Regarding claim 43, Madour discloses, further comprising sending a cancellation request from the session controller to the first access network controller to initiate removal of the session information stored in the first access network controller 0014-0022; 0027-0032).

Regarding claim 44, Madour discloses, further comprising removing session information associated with the access terminal stored in the first access network controller in response to the cancellation request message (0014-0022; 0027-0032).

Regarding claim 45, Madour discloses, further comprising storing routing information in the session controller indicating which of the plurality of access network controllers is currently identified with the access terminal by the session controller (0014-0022; 0027-0032; Fig. 2).

Regarding claim 46, Madour discloses, further comprising updating the routing information in response to a transfer of the access terminal from a first access network controller to a second access network controller (0014-0022; 0027-0032; Fig. 2).

Regarding claim 50, Madour discloses, further comprising sending a session cancellation message from an access network controller currently identified with the access terminal to the session controller, and updating the routing information stored in the session controller in response to the session cancellation message (0014-0022; 0027-0032).

Regarding claim 51, Madour discloses, further comprising sending a session update message from the session controller to one or more of the access network controllers when the session controller detects that the access terminal is not currently identified with any one of the plurality of access network controllers (0014-0022; 0027-0032).

Regarding claim 52, Madour discloses, further comprising paging the access terminal by the one or more access network controllers in response to the session update message (0014-0022; 0027-0032; Fig. 2).

Regarding claim 53, Madour discloses, further comprising sending a session cancellation message from an access network controller to the session controller if the access network controller does not receive a response from the access terminal to a paging message sent by the access network controller (0014-0022; 0027-0032).

Regarding claim 54, Madour discloses, further comprising redirecting a service request received by a first access network controller from a packet control function to a second access network controller (0014-0022; 0027-0032).

Regarding claim 55, Madour discloses, wherein redirecting a service request comprises: sending a service request notification from the first access network controller to the session controller; and sending a connection setup request from the session controller to the second access network controller currently, which is currently identified with the access terminal by the session controller (0014-0022; 0027-0032).

Regarding claim 56, Madour discloses, further comprising maintaining routing information at the packet control function indicating which of the access network

Art Unit: 2681

controllers is currently identified with the access terminal by the packet control function (0014-0022; 0027-0032).

Regarding claim 57, Madour discloses, further comprising updating the routing information when the packet control function receives a connection identified with the access terminal from an access network controller (0014-0022; 0027-0032).

Regarding claim 58, Madour discloses, wherein the network comprises a 1XEVDO network (0013).

Regarding claim 59, Madour discloses, further comprising assigning a Universal Access Terminal Identifier to access terminal by the session controller (0028).

Allowable Subject Matter

4. Claim 9-12, 47-49, objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 25-27, 29-34, 36-40, 60-65, are allowed.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure with mobile IP mobility management at dormant handover in CDMA IP based packet and 1XEVDO networks.

US Patent 6,219,547 to Quaddoura d al.

US Patent 6,061,563 to Lee

US Patent 6,487,406 to Chang et al.

US Patent 6,230,005 to Le d al.

Art Unit: 2681

US Publication 2002/0055364 to Wang et al.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julio R. Perez whose telephone number is (571) 272-7846. The examiner can normally be reached on 7:00 - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on (571) 272- 4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Julio Perez
2/4/06


JOSEPH FEILD
SUPERVISORY PATENT EXAMINER